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添付公開書類:
— 国際調査報告書

2文字コード及び他の略語については、定期発行される各PCTガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。

(54) Title: OPTICAL ELEMENT

(54) 発明の名称: 光学要素

(57) Abstract: An optical element comprising an organic glass base and a hard coat layer formed over the surface of the base through a primer layer. The primer layer has been formed from a composition comprising a primer-forming polymer consisting exclusively or mainly of an ester type TPE. The hard coat layer has been formed from a composition comprising: a hydrolyzate of one or more alkoxysilanes consisting mainly of a trialkoxysilane containing a monoepoxy organic group as a matrix-forming ingredient; and a finely particulate composite of titania-based metal oxides as an optical interference controller. The finely particulate composite of titania-based metal oxides comprises TiO₂ as the main component, SiO₂ as the primary minor component, and ZrO₂ and K₂O as trace minor components. The optical element has various properties comparable to those of conventional optical parts and can inhibit light interference even when the base has a high refractive index. It further has excellent coating film stability.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP00/03180

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

A matter common to claims 1 to 19 and claims 24 to 26 is to use a primer layer comprising a thermoplastic polyester elastomer.

However, claims 20 to 23 disclose a composition for dyeing a base not having the primer layer.

Consequently, there is no matter common to all the claims. Since there is no common matter which is regarded as a special technical matter in the sense of the second sentence in Rule 13.2 of the Regulations under the PCT, no technical relationship in the sense of Rule 13 of the Regulations under the PCT can be found between these different groups of inventions.

Therefore, it is obvious that claims 1 to 26 do not comply with the requirement of unity of invention.

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP00/03180

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.⁷ C09D167/00, C09D5/00, C09D183/06, C08J7/04, C08G18/32, C08G75/02, G02B1/10, G02B1/04, D06P5/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.⁷ C09D167/00, C09D5/00, C09D183/06, C08J7/04, C08G18/32, C08G75/02, G02B1/10, G02B1/04, D06P5/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI
PATOLIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
EX	JP 2000-144048 A (Ito Kogaku Kogyo K.K.), 26 May, 2000 (26.05.00), Claims 1 to 10 (Family: none)	1-6, 8-15
X	JP 3022555 B (Hoya Corporation), 14 January, 2000 (14.01.00), Claims 1, 9; Par. No. 12; example (Family: none)	20-23
A	JP 6-11601 A (Nikon Corporation), 21 January, 1994 (21.01.94) (Family: none)	1-26
A	JP 10-123301 A (Nikon Corporation), 15 May, 1998 (15.05.98) (Family: none)	1-26
A	JP 11-174205 A (Seiko Epson Corporation), 02 July, 1999 (02.07.99) (Family: none)	1-26
A	JP 11-193355 A (Ito Kogaku Kogyo K.K.), 21 July, 1999 (21.07.99) (Family: none)	1-26

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 28 July, 2000 (28.07.00)	Date of mailing of the international search report 08 August, 2000 (08.08.00)
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP00/03180

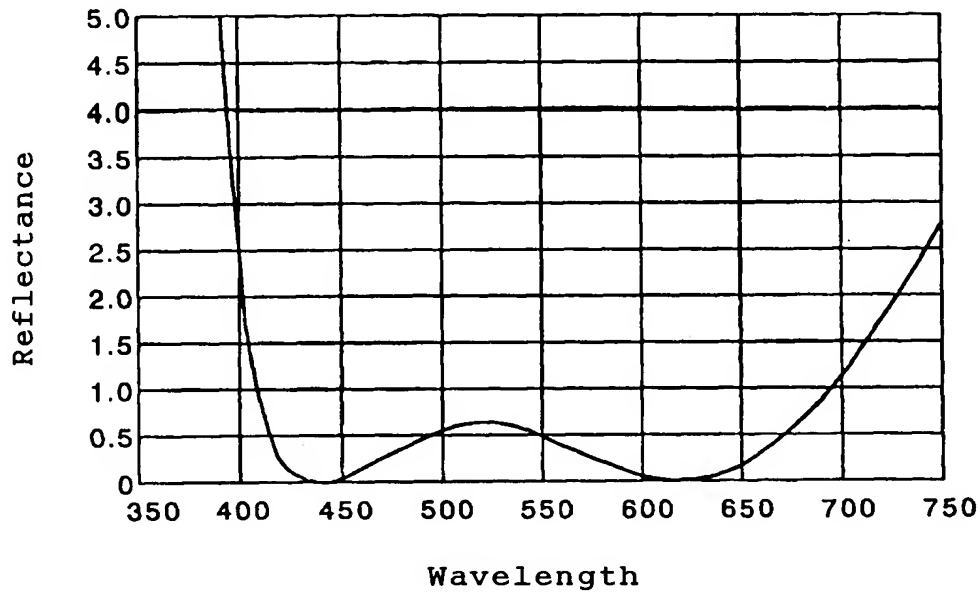
C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 6-337379 A (Nikon Corporation), 06 December, 1994 (06.12.94), Par. No. 19 (Family: none)	1-26
A	JP 9-176520 A (Nippon Zeon Co., Ltd.), 08 July, 1997 (08.07.97) (Family: none)	1-4

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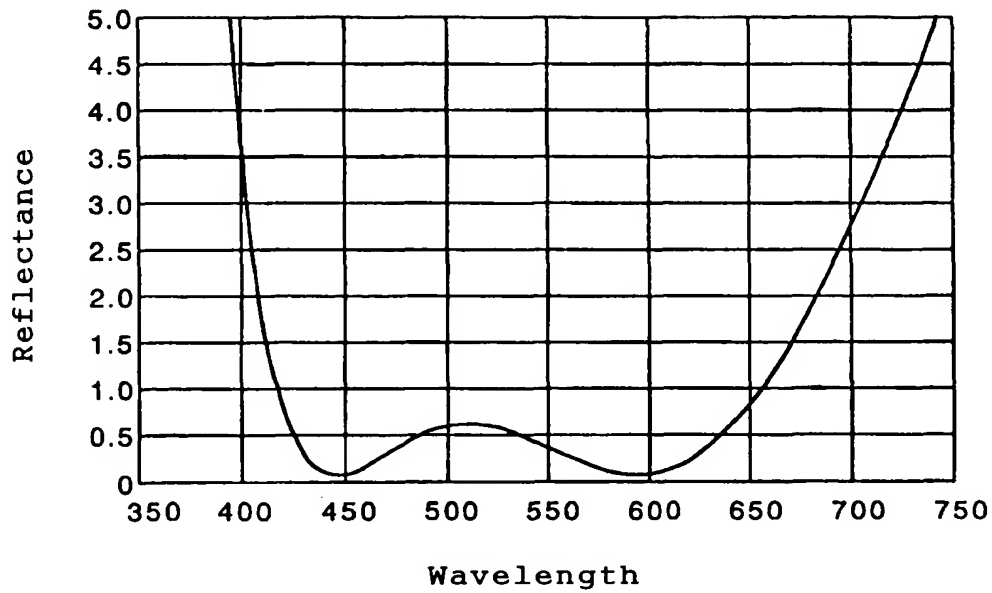
[FIGURES]

FIG. 1



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Fig. 2



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